

Sacramento River Temperature Task Group



Winter-run Chinook salmon

Annual Review 11-8-11
Bruce Oppenheim, NMFS
& Peggy Manza, USBR

Main RPA actions addressed

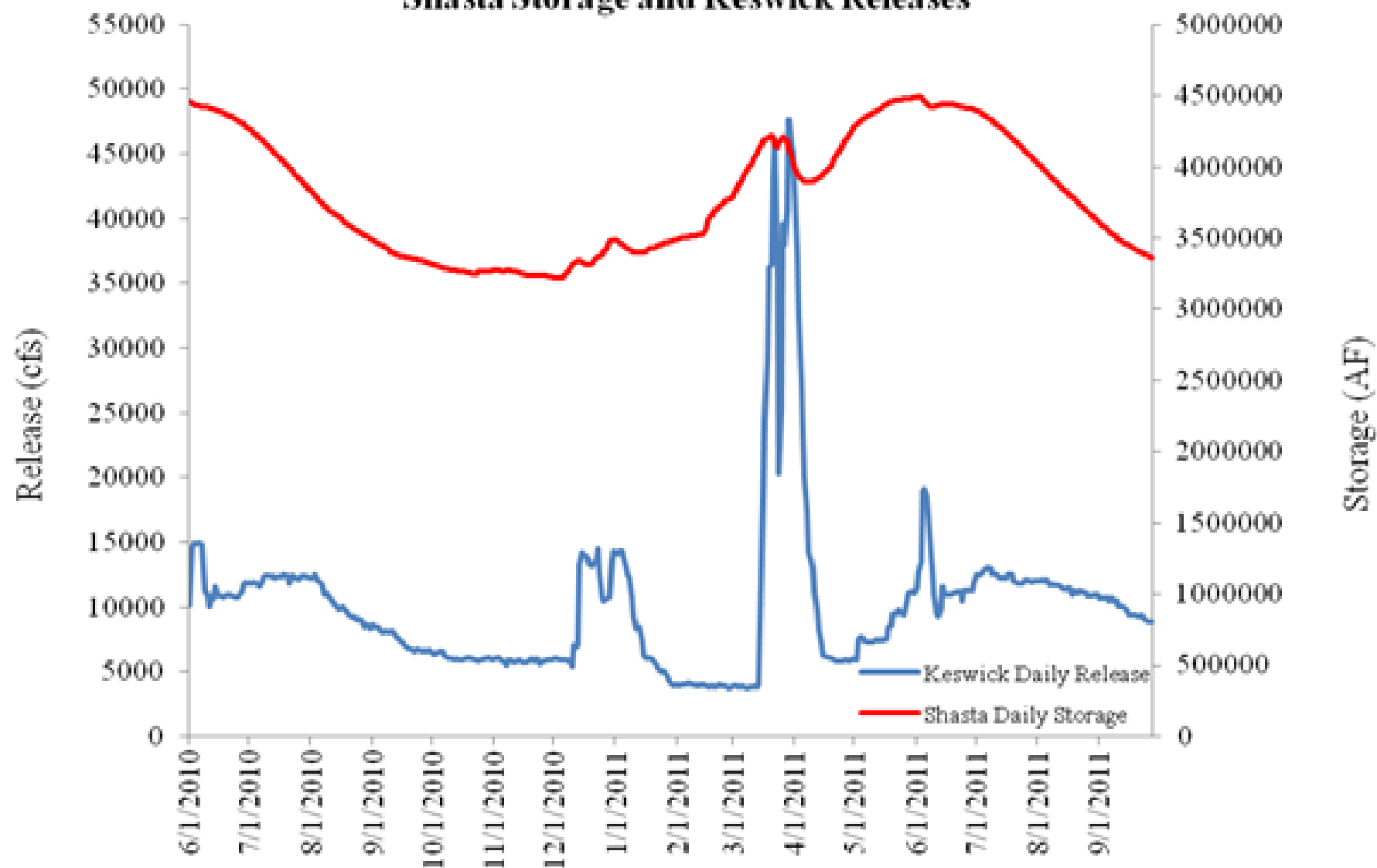
- Sacramento River temperature control
- Clear Creek temperature control
- Shasta storage



Relationship with other teams

- Sacramento River Temperature Task Group handles short-term actions; real-time ops for Sacramento R, Clear Cr, and Trinity R., works with project operators and B2 Interagency Team
- Clear Creek Technical Team handles long-term actions; habitat restoration, gravel, riparian, instream flows, works with a variety of land management agencies, CVPIA, EWP, ERP, (confined to Clear Cr)

Shasta Storage and Keswick Releases



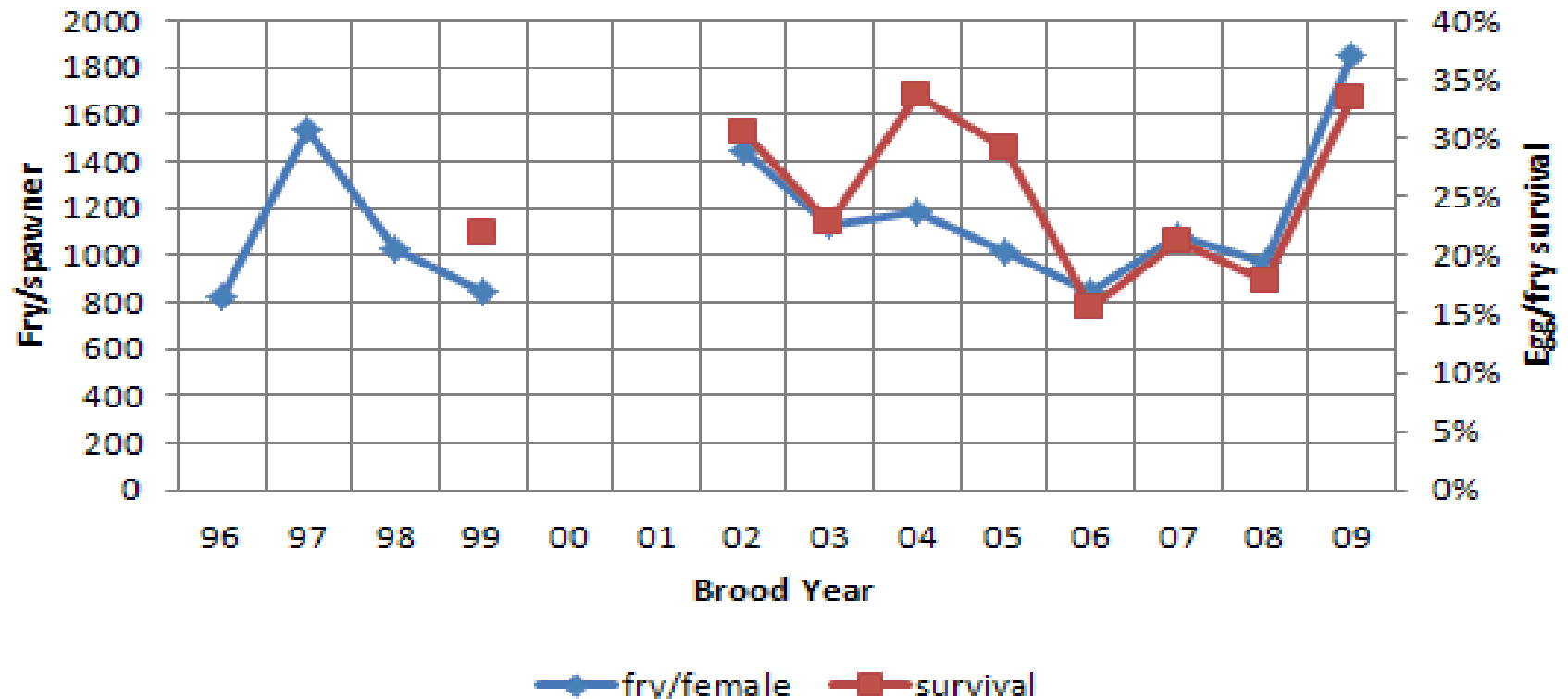
Actions Completed in 2011

- Met all temperature criteria except Clear Creek
- Minor exceedances < 3 days on Sacramento R
- Stabilized Sacramento R flows in February

Location	Time Period	Met in 2011
56 F Sacramento River @ Balls Ferry	April to May 31	Yes
56 F Sacramento River @ Jellys Ferry	June 1 st to October 31	Yes
60 F Clear Creek @ Igo	June 1 st to September 15	Yes
56 F Clear Creek @ Igo	September 15 to October 31	No

Winter-run fry survival

Fry-equivalent JPI/Female Spawner/Egg to fry survival



Status of ongoing actions

- Agencies agreed verbally to temp. management plan
- Contract issued for independent modeler in Oct.
- NOAA/NASA Temperature Model completed in July



Jellys
Ferry
Bridge

Use of models

- USBR Forecasts – adequate and best available, consider in the future long-term weather forecasting
- USBR Temp model – useful, but does not incorporate real-time decision making, trade-offs between reservoirs, or seasonality of Trinity River diversions
- NOAA/NASA temp model – needs validation and testing, more accurate temperature and weather data should improve real-time decision making.

Actions addressed in WY 2011

- Fall X₂ releases from Shasta
- Late spring tributary side flow temperature effects



Emergency use of Keswick spillway avoided



Requests for Panel Feedback

- How should the SRTTG evaluate and use the new NOAA/NASA temp. model in conjunction with the USBR model?
- How should we value the ability to adjust operations in real-time (e.g., TCD operations, releases, Trinity diversions, tributary side flows) with reliance on model outputs for decision making?